

Food Technology

Career Cluster	Hospitality and Tourism
Course Code	19254
Prerequisite(s)	N/A
Credit	0.5
Program of Study and	Cluster Course – Fundamental Food Concepts – Food Technology – Nutrition and Wellness – Nutritional
Sequence	Sciences - Restaurant Management/Culinary Arts I – Restaurant Management/Culinary Arts II – Capstone
	Experience
Student Organization	Family, Career and Community Leaders of America (FCCLA)
Coordinating Work-Based	Workplace Tours; Mentoring
Learning	
Industry Certifications	N/A
Dual Credit or Dual	N/A
Enrollment	
Teacher Certification	Family and Consumer Sciences (FACS); FACS Education; Hospitality and Tourism Pathway Endorsement
Resources	FCCLA

Course Description:

Food Technology offers opportunities to study the composition, structure, and properties of foods. Students examine changes that occur during the processing, storage, preparation, and consumption of food. Students explore effects of various materials, microorganisms, and processes on food products through laboratory experiments.

Program of Study Application

Food Technology is a pathway course in the Hospitality and Tourism career cluster; Restaurant and Food Service Pathway.

Career Cluster: Hospitality & Tourism

Course: Food Technology

Course Standards

FT 1 Students will integrate knowledge, skills, and practices required for careers in food science, food processing and food production from production to consumption.

Webb Level	Sub-indicator	Integrated Content
Level 2:	FT1.1 Determine the contributions of food science to society	
Skill/Concept		
Level 2:	FT 1.2 Summarize food science in relation to social change and technological	
Skill/Concept	advances	
Level 2:	FT 1.3 Explain contributions of food science to changing food quality and	
Skill/Concept	availability	
Level 2:	FT 1.4 Investigate careers in food science, food processing, and food	
Skill/Concept	production industries	

Notes

FT 2 Students will explore scientific practices as they relate to the food industry.

Webb Level	Sub-indicator	Integrated Content
Level 2:	FT. 2.1 Demonstrate safe laboratory practices	
Skill/Concept		
Level 3:	FT 2.2 Apply skills needed for valid and reliable scientific experiments	
Strategic		
Thinking		

Notes

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FT 3 Students will investigate physical and chemical changes of food composition.

Webb Level	Sub-indicator Sub-indicator	Integrated Content
Level 2:	FT 3.1 Differentiate roles of the three phases of water in food preparation,	
Skill/Concept	food processing and food safety, e.g. steaming, freezing, boiling, shocking (ice	
	bath), dehydration	
Level 3:	FT 3.2 Investigate changes of macro nutrients in food processing and	
Strategic	preparation, e.g. heat application, varied ingredients	
Thinking		
Level 3:	FT 3.3 Investigate changes of micro nutrients in food processing and	
Strategic	preparation, e.g. heat applications, solubility	
Thinking		

Notes

FT 4 Students will demonstrate food safety and sanitation procedures.

Webb Level	Sub-indicator	Integrated Content
Level 2:	FT 4.1 Practice procedures that minimize the risks of food borne illness	
Skill/Concept		
Level 3:	FT 4.2 Differentiate how microorganisms act in food and their effect on food	
Strategic	products, e.g. fermentation, molds, probiotics and yeast	
Thinking		
Level 2:	FT 4.3 Classify sources of contamination: chemical, physical, and biological	
Skill/Concept		

Notes

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FT 5 Students will use the role of sensory evaluation in the food industry.

Webb Level	Sub-indicator	Integrated Content
Level 3:	FT 5.1 Differentiate sensory characteristics that affect food preferences	
Strategic		
Thinking		
Level 2:	FT 5.2 Implement procedures for evaluation of sensory characteristics	
Skill/Concept		

Notes

FT 6 Students will investigate technological advances in food science, food processing, and food production.

Webb Level	Sub-indicator	Integrated Content
Level 2:	FT 6.1 Distinguish scientific advances that have changed the food supply and	
Skill/Concept	preparation, e.g. genetically modified organisms (GMOs), molecular	
	gastronomy	
Level 3:	FT 6.2 Investigate use of technology in new food product development	
Strategic		
Thinking		

Notes